Advanced Water Treatment Solutions for Premium Drinking Water Quality and Efficient Water Softening

Water quality plays an important role in residential and commercial applications, especially when the goal is to achieve safe, great-tasting and reliable drinking water. Modern water treatment technologies can address multiple water-quality challenges, including hardness, scale formation, chlorine, heavy metals, emerging contaminants and other unwanted substances. Two innovative solutions from Watch Water—**Carbonate X-Mg** and **COMBI-MIX™**—offer different but complementary approaches to improving treated water quality.

ADVANCED WATER TREATMENT SOLUTIONS FOR
PREMIUM DRINKING WATER QUALITY
— CLEANER WATER. BETTER TASTE. HEALTHIER LIFE. —
CARBONATE X-Mg
Decarbonization & Magnesium Infusion Media
Transforms carbonate ions into bicarbonate ions while adding magnesium for balanced, mineral-rich water.
Improves pH Balance
Ideal pH ~7.4 for better taste & optimal brewing
Enhances Flavor
Perfect for coffee, tea & beverages
Prevents Scale
Protects appliances & extends equipment life
Magnesium Infusion
Adds essential magnesium for better health & taste
Reduces Contaminants
Helps reduce pharmaceuticals, microplastics, PFOS/PFOA & industrial chemicals*
SAFE CLEAN BALANCED WATER
IDEAL FOR
Homes
Offices
Coffee Shops
Commercial Applications
COMBI-MIX™
All-in-One Multi-Media Treatment
A powerful blend of 4 advanced media for complete water treatment in a single system.
AQUAREDOX®
Reduces organic & inorganic compounds including emerging contaminants.
CATALYTIC CARBON
Coated with Zero Valent Iron removes chlorine, chloramines, heavy metals & organic compounds.
CATIONIX®
High-performance water softening media that removes calcium & magnesium. Regenerates with only 80 grams of salt.
KATALOX LIGHT®
Effectively reduces iron, manganese & hydrogen sulfide.
MULTIPLE CONTAMINANT REDUCTION
Hardness (Calcium & Magnesium)
Iron & Manganese
Chlorine & Chloramines
Heavy Metals
PFAS & PFOA/PFOS
Trihalomethanes
Microplastics
Ammonia
H_2S
Microbial Contaminants
PREVENTS SCALE
IMPROVES WATER QUALITY
BETTER TASTE & AROMA
BETTER HEALTH & WELLNESS
SINGLE-STEP REGENERATION
All 4 media regenerate together with 80g of NaCl per liter of Cationix media.
LESS WATER WASTE
Drastically reduces wastewater compared to conventional systems.
LOW MAINTENANCE HIGH PERFORMANCE
Automated with metered control valve for consistent & reliable operation.
ADVANCED TECHNOLOGY. MULTIPLE BENEFITS. ONE SOLUTION.
WATCH WATER®
a Water Company
PROVEN TECHNOLOGY
SUPERIOR WATER QUALITY
SUSTAINABLE SOLUTIONS
www.watchwater.de
CLEAN WATER FOR A BETTER TOMORROW
MADE IN GERMANY
*When used in combination with appropriate adsorption media.

Carbonate X-Mg for Premium Drinking Water Quality

Carbonate X-Mg is a specialized water treatment media designed for decarbonization and magnesium infusion. It works by converting carbonate ions into bicarbonate ions while adding magnesium to the treated water. According to Watch Water, this process can help prevent scale formation, improve water quality and support better performance of appliances and water systems.

One of the key applications of Carbonate X-Mg is drinking water and coffee preparation. The media can help create water with a balanced mineral profile and is designed to support flavor extraction, pH balance, buffering capacity, mouthfeel and magnesium infusion. Watch Water identifies a pH level of around 7.4 as an ideal level for coffee brewing because water that is excessively acidic or alkaline can affect extraction and flavor.

Carbonate X-Mg can also be used in household water filters and coffee machines. When combined with appropriate adsorption media, the system can help address contaminants such as pharmaceuticals, microplastics, PFOS/PFOA and other industrial chemicals. These capabilities make the technology useful for applications focused on achieving **Premium drinking water quality**.

COMBI-MIX™: Multi-Stage Treatment in One Media Blend

While Carbonate X-Mg focuses on decarbonization, mineral infusion and water-quality optimization, COMBI-MIX™ provides a broader all-in-one approach to residential and commercial drinking water treatment.

COMBI-MIX™ combines four treatment media: AquaRedox, Catalytic Carbon, Cationix and Katalox Light. Together, these technologies are designed to address multiple contaminants and reduce wastewater production compared with conventional filtration approaches.

A major component of the system is **Cationix**, an efficient **water softening media** that removes calcium and magnesium through ion exchange. According to Watch Water, Cationix is designed for low-maintenance operation and can regenerate using only 80 grams of salt. By reducing hardness, it helps prevent scale formation and improves overall water quality.

The other media components provide additional treatment functions. AquaRedox targets organic and inorganic compounds, including emerging contaminants. Catalytic Carbon coated with Zero Valent Iron is designed to remove organic compounds, heavy metals, chlorine and chloramines. Katalox Light targets iron, manganese and hydrogen sulfide.

Multiple Contaminant Reduction

One of the advantages of COMBI-MIX™ is its ability to combine softening, filtration, oxidation and adsorption in a single treatment configuration. The system is designed to address contaminants including hardness, iron, manganese, hydrogen sulfide, chlorine, chloramines, heavy metals, PFAS, trihalomethanes, microplastics, ammonia and microbial contaminants.

The media are arranged in a packed-bed configuration according to their respective densities. Watch Water specifies AquaRedox at 20%, Catalytic Carbon at 20%, Cationix at 40% and Katalox Light at 20%. This configuration allows the different media to perform their respective treatment functions within one system.

Efficient Regeneration and Reduced Water Waste

COMBI-MIX™ also incorporates a single-step regeneration process. All four media regenerate together using 80 grams of sodium chloride per liter of Cationix media. A metered control valve can automate the regeneration process, helping maintain consistent system performance while reducing maintenance requirements.

The system is also designed to drastically reduce wastewater production compared with conventional filtration systems. Its combination of multiple treatment technologies in one configuration can help reduce salt consumption, water waste and operational requirements.

Choosing the Right Water Treatment Approach

The right treatment technology depends on the specific characteristics and treatment goals of the water supply. Carbonate X-Mg can be particularly useful where decarbonization, magnesium infusion, pH balance, scale prevention and beverage quality are important considerations. COMBI-MIX™, on the other hand, is designed as a comprehensive treatment solution where water softening and reduction of multiple contaminants are required.

By combining advanced filtration technologies with specialized media, modern water treatment systems can provide a practical approach to improving drinking water quality while also protecting equipment from hardness and scale-related problems.

For applications where **Premium drinking water quality** and effective **water softening media** are important priorities, advanced media-based treatment technologies such as Carbonate X-Mg and COMBI-MIX™ provide flexible solutions for residential and commercial water treatment applications.